A Mathematical Reading List

Mathematics Overview
The Math Book, (DK Big Ideas), DK
The Little Book of Mathematical Principles, Robert Solomon, Metro Books
50 Mathematical Ideas, Tony Crilly, Quercus
The New Math, Irving Adler, Signet Science Library
How to Solve It, G. Polya, Doubleday Anchor Books

Foundations of Mathematics
Great Ideas of Modern Mathematics, Jagjit Singh, Dover
Introduction to Mathematical Thought, E.R. Stabler, Addison-Wesley
The Waltz of Reason-The Entanglement of Mathematics and Philosophy, Karl
Sigmund, Basic Books
The Art of Logic in an Illogical World, Eugenia Cheng, Basic Books
Is Math Real, Eugenia Cheng, Basic Books
Sets, Logic and Axiomatic Theories, Robert R. Stoll, W. H. Freeman

Historical Overviews
Mathematics for the Millions, Lancelot Hogben, W. W. Norton
The Story of Numbers, John McLeish, Fawcett Columbine
Descartes' Secret Notebook, Amir D. Aczel, Broadway Books
God Created the Integers, Stephen Hawking, Running Press
Elements, Euclid, various – Internet Archive

Numbers
The Golden Ratio, Mario Livio, Broadway Books
e The Story of a Number, Eli Maor, Princeton University Press
The Pleasures of PI,e, YEO Adrian, World Scientific

Personal Experiences with Math
The Art of Mathematics, Jerry P. King, Dover
A Divine Language, Alec Wilkinson, Farrar, Straus and Giroux
Algebra The Beautiful, G. Arnell Williams, Basic Books

Recreational Reading
Innumeracy: Mathematical Illiteracy and Its Consequences,
John Allen Paulos, Hill and Wang   (and other books by Paulos)
The Scientific American Book of Mathematical Puzzles and Diversions,
Martin Gardner, Simon and Schusters   (and other books by Gardner)