Inference at $*$ 1 1 1
 of proof for Lemma mul_cancel_in_le:

1. $a : \mathbb{Z}$
2. $b : \mathbb{Z}$
3. $n : \mathbb{N}^+$
4. $(n * a) \leq (n * b)$
5. $(n * a) < (n * b)$

$\vdash a \leq b$

 by ((FwdThruLemma ‘mul_cancel_in_lt‘ [5])
 CollapseTHEN ((Auto_aux (first_nat 1:n
) ((first_nat 2:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

 .

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_74955_{mul_cancel_in_le}1_1_1.html