Inference at * 1 2
 of proof for Lemma mul_preserves_lt:

. . . . .upcase. . . . . NILNIL

1. $a : \mathbb{Z}$
2. $b : \mathbb{Z}$
3. $a < b$
4. $n : \mathbb{Z}$
5. $1 < n$
6. $((n - 1) * a) < ((n - 1) * b)$

$\vdash (n * a) < (n * b)$

 by ((OnMHyps [3;6] (Rewrite (LemmaC 'lt_to_le_rw')))
 CollapseTHENA (
  (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

 1:

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

  $\vdash (n * a) < (n * b)$

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